

ABSTRACT

A ferrite magnetic material comprising a main phase of W-type is provided which has magnetic properties improved through the optimization of additives. The ferrite magnetic material comprises a main constituent having a compound represented by composition formula $A\text{Fe}^{2+}_a\text{Fe}^{3+}_b\text{O}_{27}$ (wherein A comprises at least one element selected from Sr, Ba and Pb; $1.5 \leq a \leq 2.1$; and $12.9 \leq b \leq 16.3$), a first additive containing a Ca constituent (0.3 to 3.0 wt% in terms of CaCO_3) and/or a Si constituent (0.2 to 1.4 wt% in terms of SiO_2), and a second additive containing at least one of an Al constituent (0.01 to 1.5 wt% in terms of Al_2O_3), a W constituent (0.01 to 0.6 wt% in terms of WO_3), a Ce constituent (0.001 to 0.6 wt% in terms of CeO_2), a Mo constituent (0.001 to 0.16 wt% in terms of MoO_3), and a Ga constituent (0.001 to 15 wt% in terms of Ga_2O_3).